

Claims

[c1] WHAT IS CLAIMED IS:

1. A bag for transporting moisture-sensitive goods, the bag comprising:

a bag wall comprised of a unilayer multi-ply laminate; wherein the laminate comprises an outer ply comprised of crepe paper, a central ply comprised of a barrier material forming a vapor barrier, and an inner ply comprised of weldable thermoplastic plastic material.

[c2] 2. The bag according to claim 1, wherein the crepe paper of the outer ply has a grammage of approximately 70 g/m^2 – 110 g/m^2 .

[c3] 3. The bag according to claim 2, wherein the crepe paper has a grammage of approximately 90 g/m^2 .

[c4] 4. The bag according to claim 1, wherein the central ply is an aluminum foil.

[c5] 5. The bag according to claim 1, wherein the central ply is a metallized polyethylene terephthalate film or a metallized polypropylene film.

[c6] 6. The bag according to claim 1, wherein the central ply

is a polyester film or poly vinyl alcohol film.

- [c7] 7. The bag according to claim 1, wherein at least one of the inner ply, the central ply and the outer ply are lined by pasting or by extrusion.
- [c8] 8. The bag according to claim 1, wherein the laminate further comprises two films of polyethylene acting as bonding agents, wherein the central ply is bonded between the two films.
- [c9] 9. The bag according to claim 8, wherein the polyethylene of the two films is of the type metallocene linear low-density polyethylene.
- [c10] 10. The bag according to claim 8, wherein a first one of the two films is arranged between the central ply and the outer ply and has a grammage of $20 \text{ g/m}^2 - 40 \text{ g/m}^2$.
- [c11] 11. The bag according to claim 10, wherein the first film has a grammage of approximately 30 g/m^2 .
- [c12] 12. The bag according to claim 10, wherein a second one of the two films is arranged between the central ply and the inner ply and has a grammage of $70 \text{ g/m}^2 - 110 \text{ g/m}^2$.
- [c13] 13. The bag according to claim 12, wherein the second film has a grammage of approximately 85 g/m^2 .

- [c14] 14. The bag according to claim 1, wherein the bag is a gusseted bag having lateral gussets with laterally positioned fold edges, wherein the fold edges are displaced relative to one another in a transverse direction of the gusseted bag.
- [c15] 15. The bag according to claim 14, wherein the fold edges are displaced by approximately 2 mm to 5 mm relative to one another.
- [c16] 16. The bag according to claim 15, wherein the fold edges are displaced by approximately 3 mm relative to one another.
- [c17] 17. The bag according to claim 1, wherein the bag wall has a longitudinal closure seam formed as a fin seal.
- [c18] 18. The bag according to claim 17, wherein a seam area of the fin seal is folded onto an exterior side of the bag wall and is glued with an adhesive to the exterior side.
- [c19] 19. The bag according to claim 18, wherein the adhesive is a hot melt that is polyurethane based.
- [c20] 20. The bag according to claim 1, wherein the bag has a first end and a second end, wherein the first and second ends are provided with a staggered bottom flap and closed by the staggered bottom flap, respectively.

- [c21] 21. The bag according to claim 20, wherein the bottom flap is glued to the bag wall by a hot melt adhesive.
- [c22] 22. The bag according to claim 20, wherein the bag is a gusseted bag and the bag wall has a first wall and a second wall laterally connected by gussets, wherein, for forming the staggered bottom flap, the first wall extends past terminal edges of the gussets and the second wall is staggered relative to the first wall and ends below the terminal edges of the gussets.
- [c23] 23. The bag according to claim 22, wherein folding lines for the bottom flap extend at a spacing relative to an edge of the second wall facing the bottom flap.